



New

alphaHUD Head-Up-Display

[At a glance & hands-free: real-time SCBA status]

MSA
The Safety Company



The *alphaHUD* Head-Up-Display provides air pressure and other information at the edge of your field of vision – hands free. *alphaHUD* is wireless and easily attached to the inside of your Ultra Elite mask.

The wireless *alphaHUD* provides pressure status and alarm information on low battery or pressure. It receives data from the *alphaMITTER*, the short-range transmitter which is attached to the self contained breathing apparatus [SCBA].

Advantages include greatly improved operational efficiency and safety.

[Applications]

alphaHUD in combination with *alphaMITTER* provides additional safety for every application using an SCBA. Using a non-distracting LED display at the perimeter of your field of vision, the *alphaHUD* lets you monitor your air supply while keeping your hands free. It eliminates the need to frequently check the gauge and alarms are visually indicated. Thus you can fully concentrate on your work.

In heavy black smoke, e.g. in basement fires, the gauge dial is often hard to read. Regardless of ambient conditions *alphaHUD* always provides reliable SCBA information.

Particularly in a chemical protective suit checking pressure is tiresome and distracting, since you have to take your arm out of the sleeve to find the gauge.



[*alphaMITTER*]

A short-range transmitter attached to the SCBA, the *alphaMITTER*, sends air pressure data to the *alphaHUD* once every second. It can be retrofitted to AirGo, AirMaXX and BD 96 SCBA systems with SingleLine pneumatics.



[Features & Benefits]

- Hands-free information on your SCBA status
 - Receives info every second from *alphaMITTER*
 - Wireless and independent of SCBA
 - Two banks of LEDs on the left and right side
 - Brightness automatically adjusts to the ambient light
 - LEDs glow for 2 then gradually dim for 8 seconds
 - Alarm signal is also visible externally as a buddy light
 - Easily integrated in existing Ultra Elite mask
 - Only CE & ATEX approved HUD with radio link to SCBA
 - No service required
 - Ingress protection IP 45
- safety for all applications
 - real-time status
 - low investment as you can share units
 - balanced perception
 - ensure non-obtrusive visibility
 - provide constant, non-distracting readability
 - additional safety
 - fast operation
 - cutting-edge-technology
 - only battery replacement needed
 - easy cleaning

[Multi-Colour LED System]

alphaHUD features two sets of multi-coloured LEDs. Intelligently arranged they offer non-distracting readability. On the left side two LEDs [with three colours each] inform you about alarms and the current radio status. The three bi-colour LEDs on the right side offer self-explanatory information about your current SCBA pressure.

[Unique Signal Pairing]

The wireless USB 2.4 GHz [W-USB] signal exchange between *alphaMITTER* and *alphaHUD* creates a defined network around the person. When an *alphaHUD* makes contact with an *alphaMITTER*, they establish a unique signal pairing that cannot be confused by other devices in the vicinity. Nevertheless devices are quickly interchangeable as the pairing of an *alphaHUD* with another *alphaMITTER* is easily conducted.



Buddylights inform your colleagues about a high priority alarm



Example for a SCBA pressure level of >270 bar



alphaHUD is a perfect amendment to the alpha Personal Network system



alphaMITTER: short-range transmitter on the SCBA backplate

Your direct contact



Subject to change without notice

[Future Capabilities]

alphaHUD can be used in conjunction with the soon enhanced *alpha* Personal Network. This system enables full telemetric monitoring of pressure, motion and other data. When used together with the *alphaSCOUT* and *alphaBASE* command communication option, the *alphaHUD* can also display the evacuation signal sent by the incident commander.

[Technical Details & Approvals]

- Power Supply: 1 x CR2 [e.g. Panasonic Photo Power CR2 Lithium]
- Directive 94/9/EC [ATEX]
BVS 05, ATEX E 150, ⓈII 1G, EEx ia IIC T3/T4;
EN 50 014, EN 50 020, EN 50 284, $-30^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
- Directive 89/336/EC [EMC]
EN 61 000-6-2, EN 61 000-6-3
- Radio approvals according to Directive 1999/5/EC [R&TTE]
EN 302 208-1/-2, EN 300 440-1, EN 301 489-1/-3, EN 50 371
- Full face mask: EN 136 / SCBA component: EN 137

[Ordering Info]

10086118 *alphaHUD* incl. CR2 battery

10058211 *alphaMITTER*

retrofitable to AirMaXX, eXXtreme or AirGo SCBAs with SingleLine [Q]

10069803 *alphaMITTER*

retrofitable to BD 96 SCBA with SingleLine [Q]

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